

ABSTRACT

TEST OR CALIBRATION OF DISPLAYED GREYSCALES

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Testing a display involves display of a series of test patterns, each at a different luminance or colour, and with a predetermined minimum difference of luminance or colour from their background, each pattern being unpredictable to a user, and determining if the user has correctly identified the patterns. This can enable a more objective test without needing external measuring equipment. Calibrating the display involves determining an output luminance level by detecting a minimal difference of drive signal to give a just noticeable output luminance difference at a given high luminance drive level, and determining an absolute luminance of the given high input luminance level from the minimal difference and from a predetermined human characteristic of visibility threshold of luminance changes. This can avoid the need for an external or internal sensor. This can be useful during conformance checks or during calibration of the display for example.

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